WHAT IS CLAIMED IS:

1. A capping head for application of caps on bottles or containers, wherein it comprises a casing having an end mouth designed to fit on the bottle or container so as to define a closed chamber, within which there is enclosed the head, and means for connecting said closed chamber with a source of vacuum for the purpose of communicating said vacuum to the space inside the bottle or container before the end of application of the cap on the bottle or container.

2. The capping head according to Claim 1, wherein said casing is mounted on the structure of the capping head with interposition of rolling bearings and has its end mouth made in an end wall that is elastically compliant within the casing.

3. The capping head according to Claim 2, wherein said connection means comprise valve means set between the structure of the casing and the structure of the capping head.

4. The capping head according to Claim 3, wherein said valve means comprise a valve body rigidly connected to the casing and mounted with the possibility of axial sliding with respect to a valve element, which is mounted with interposition of the aforesaid rolling bearings on the structure of the capping head.

5. The capping head according to Claim 4, wherein said valve element has two opposite operating positions, in one of which it connects a chamber communicating with the space inside the casing to an opening for connection with the source of vacuum and in the other of which it connects the aforesaid chamber to an opening for connection to a discharge.

6. The capping head according to Claim 1, wherein

said end mouth of the casing is provided with a seal ring.

7. A capping machine, wherein it comprises one or more capping heads according to one or more of the preceding claims.

8. A method for the application of caps on bottles or similar containers, wherein a capping head is provided enclosed within a casing having an end mouth, which is designed to engage the bottle or the container during application of the cap, so as to define a closed chamber, and in that, during application of the cap, said closed chamber is set in communication with a source of vacuum.